



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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December 2, 1994

Mr. Tom Anders
Environmental Affairs Specialist
Morton International, Incorporated
Morton International Building
100 North Riverside Plaza
Randolph St. at the River
Chicago, Illinois 60606-1597

Re: Tentative Approval, Notice of Intention to Commence Large Mining Operations, Morton International(Morton), Morton Salt Division, Grantsville Operations, M/045/037, Tooele County, Utah

Dear Mr. Anders:

The Division has completed a review of your deficiency response dated December 20, 1993. This was a response to the Division's previous review comments of August 3, 1993. We apologize for the unfortunate delay in responding to your submission.

With the exception of a few minor comments requiring clarification or agreement, the application is now considered complete. **The Division hereby grants Tentative Approval of Morton's permit application.** The Division will now prepare a public notice. When published, the notice will begin a 30-day public comment period. A draft copy of the public notice will be sent to you for review and comment, prior to publishing.

If no substantive comments are received by the end of the 30-day public comment period, the Division will prepare an executive summary of the mine plan, and present Morton's form and amount of reclamation surety to the Board of Oil, Gas and Mining for approval. The Board holds a public hearing on the fourth Wednesday of each month. Reclamation surety issues are heard at that time. Final approval is granted by the Division after the Board approves of the form and amount of reclamation surety.

The Division's following minor comments will require clarification or agreement from Morton. These comments are listed under the appropriate Minerals Rule headings. Please provide us with a written clarification or agreement to these comments at your earliest convenience.



R647-4-107 Operation Practices

107.3 Erosion Control & Sediment Control

Morton has adequately addressed the Division's comment under this heading by providing a copy of the General Permit for Storm Water Discharges Associated with Industrial Activity received from the Division of Water Quality. The General Permit number is UTR000080. This document was labeled as Enclosure 5 in Morton's December 1993 submission.

R647-4-110 Reclamation Plan

110.5 Revegetation Planting Program

The Division recommends the following revegetation plan:

After demolition and site regrading, rip or disc areas to be reseeded to a minimum depth of 6" to prepare seedbed. Drill seed the approved seed mix on all areas with a rangeland drill. The following seed mix is recommended by the Division based on a review of the vegetation survey and soils data. If this seed mix is acceptable to Morton, please incorporate it into the plan.

SEED MIX RECOMMENDATION

<u>Species</u>	<u>Rate*</u>
Alkali sacaton (<i>Sporobolus airoides</i>)	1
Tall wheatgrass (<i>Agropyron elongatum</i>)	3
Boizoisky wildrye (<i>Elymus junceus boizoisky</i>)	3
'Alti' tall fescue (<i>Festuca arundinacea</i>)	3
Yellow sweetclover (<i>Melilotus officinalis</i>)	1.5
Strawberry clover (<i>Trifolium fragiferum</i>)	1
Gardner saltbush (<i>Atriplex gardnerii</i>)	2
Shadscale (<i>Atriplex confertifolia</i>)	2
Rubber rabbitbrush (<i>Chrysothamnus nauseosus</i>)	.5
Forage kochia (<i>Kochia prostrata</i>)	1
Total Seed	18

*Rate is pounds of Pure Live Seed (PLS) per acre.

When mixing seed and preparing the drill, mix the gardner saltbush and shadscale together, the rubber rabbitbrush and forage kochia together and the remaining species together. Put the kochia/rabbitbrush mix in the alfalfa box and pull the tubes so that this seed will be 'broadcast' on the surface, the shadscale/saltbush mix should be placed in the outer drops (place cardboard dividers to isolate these drops in the seed bin) and the remaining seed will be in the center drops.

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Seeding should be done in late October/early November. The seedbed preparation should be done within 2 - 3 weeks prior to seeding. (LMK)

R647-4-113 Surety

The Division has reviewed the Reclamation Contract (Form MR-RC) submitted with this response. We have made minor changes to pages one and two of the MR-RC by inserting the appropriate file number. We have modified page nine of the Reclamation Contract, Attachment A, to include a description of the features and their respective acreages. The disturbed acreage totals should be consistent with the acreages listed in the original notice (FORM MR-LMO), and the acreages used in calculating the reclamation surety. For your reference, a copy of page four of the original MR-LMO form is enclosed. If these acreages need to be revised, please provide us with the appropriate revisions. Please inform us if these changes to the MR-RC form are accurate and acceptable to Morton.

A complete copy of the MR-RC form with the Division's changes is enclosed for your review. After Attachment A of the MR-RC form has been agreed upon, the Division will need an original signed and dated version of page 5 of that document. Mr. Gene L. Decker's signature is absent from the form we presently have.

The Division has reviewed the Surety Bond (Attachment B) included in this response. We have made minor changes to pages one through four by adding the appropriate file number in the heading block. A copy of the Surety Bond form with the Division's changes is also enclosed for your review. Please inform us if these changes are acceptable to Morton.

If you have any questions regarding this letter or the Board approval process please contact me or Tony Gallegos of the Minerals staff. Thank you for your cooperation and patience in completing this permitting action.

Sincerely,



D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb

Enclosures: revised MR-RC form, revised Surety Bond form,
page 4 of original MR-LMO

cc: Lloyd Godfrey, Morton Salt - Grantsville; w/enclosures
Mike Ford, BLM Pony Express RA
Rod Thompson, Tooele County
Lowell Braxton, DOGM

M045037.SDM

(b) A border clearly outlining the extent of the surface disturbed area proposed to be affected by mining, and the number of acres proposed to be affected;

X

(c) The location of known test borings, pits, or core holes.

NA

3. Additional Maps

Additional maps and drawings may be required as applicable in accordance with Rule R613-004-105.3.

III. OPERATION PLAN (Rule R613-004-106)

1. Mineral(s) to be mined: Salt (NaCl) from the Great Salt Lake

2. Acreage to be disturbed:

Minesite (operating, storage, disposal areas, etc.): 7686

Access/haul roads/conveyors: 130

Associated on-site processing facilities: 33

Total: 7849

3. Describe methods and procedures to be employed for mining, on-site processing and concurrent reclamation.

The harvester scrapes the salt cake from the pond and conveys it up and into the trailer attached to the tractor. The salt is hauled to the wash plant and washed with lake water, conveyed to a double-wing stacker and stockpiled for storage. Salt is conveyed to the mill by a front-end loader and conveyor belt. Within the mill salt is dried, graded and bagged or processed into one of several product lines.

4. Elevation of groundwater (if known) 6 to 8 ft. below grade

5. Thickness of soil material to be stockpiled.

Area from which soil material can be salvaged NA inches

Volume of soil to be stockpiled NA acres

(cross reference with item IV-17) NA cu. yds.

6. Thickness of overburden NA ft.

7. Thickness of mineral deposit. NA ft.

8. Volume of refuse, tailings, and processing waste stockpiles. NA cu. yds.

9. Acreage and capacity of tailings ponds and water storage ponds to be constructed. NA acres

NA Acre-Feet